

## INTERNATIONAL SEARCH REPORT

Internati application No

CT/GB 03/04949

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N5/06 C07K14/475 A61K35/36 A61K8/98

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N C07K A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98/47471 A (GHO CONRADUS GHOSAL ; GHO ST HOLDING B V (NL)) 29 October 1998 (1998-10-29)  page 4, line 28 - page 5, line 23 page 8, line 19 - line 33	1-3, 7-9, 11-16, 18-21, 27, 28
X	JAHODA C A B ET AL: "INDUCTION OF HAIR GROWTH BY IMPLANTATION OF CULTURED DERMAL PAPILLA CELLS" NATURE, MACMILLAN JOURNALS LTD. LONDON, GB, vol. 311, 11 October 1984 (1984-10-11), pages 560-562, XP002024448 ISSN: 0028-0836 abstract; figure 1	24

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*Z\* document member of the same patent family

Date of the actual completion of the international search

2 March 2004

Date of mailing of the international search report

18/03/2004

Name and mailing address of the ISA

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International Application No.

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/74164 A (GEN HOSPITAL CORP ; BURGESON ROBERT (US); KISHIMOTO JIRO (US); MORGAN) 11 October 2001 (2001-10-11) cited in the application page 23, line 5 - line 11	1,7,10, 20,22-28
X	KISHIMOTO J ET AL: "WNT SIGNALING MAINTAINS THE HAIR-INDUCING ACTIVITY OF THE DERMAL PAPILLA" GENES AND DEVELOPMENT, COLD SPRING HARBOR LABORATORY PRESS, NEW YORK, US, vol. 14, 2000, pages 1181-1185, XP002942353 ISSN: 0890-9369 cited in the application page 1184, right-hand column, paragraph 3	1,7,10, 20,22-28
A	US 5 851 831 A (MATSUZAKI TAKASHI ET AL) 22 December 1998 (1998-12-22) cited in the application the whole document	1
A	INAMATSU M ET AL: "Establishment of rat dermal papilla cell lines that sustain the potency to induce hair follicles from afollicular skin." THE JOURNAL OF INVESTIGATIVE DERMATOLOGY. NOV 1998, vol. 111, no. 5, November 1998 (1998-11), pages 767-775, XP002272134 ISSN: 0022-202X cited in the application the whole document	1

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International application No.  
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## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
Although claim 25 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

CT/GB 03/04949

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9847471	A	29-10-1998	NL 1005445 C2	21-09-1998
			AT 219654 T	15-07-2002
			AU 732729 B2	26-04-2001
			AU 6638898 A	13-11-1998
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			CN 1254277 T	24-05-2000
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			DK 971679 T3	22-07-2002
			EP 0971679 A1	19-01-2000
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			HK 1025052 A1	15-11-2002
			ID 22700 A	09-12-1999
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			WO 9847471 A1	29-10-1998
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			EP 1267616 A1	02-01-2003
			JP 2004500407 T	08-01-2004
			WO 0174164 A1	11-10-2001
			US 2002114772 A1	22-08-2002
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			AU 699407 B2	03-12-1998
			AU 1641495 A	19-10-1995
			CA 2146734 A1	12-10-1995
			EP 0682107 A2	15-11-1995
			DE 69529244 D1	06-02-2003
			DE 69529244 T2	09-10-2003